FIG 1

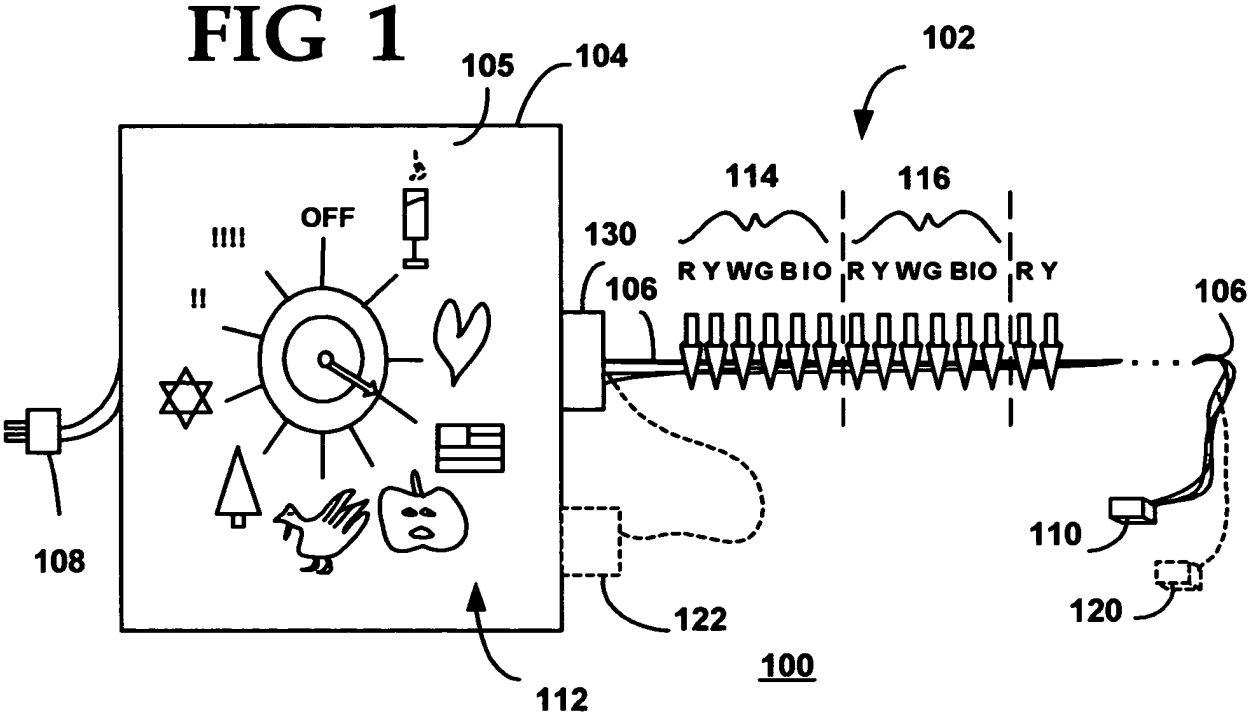

105
104
102
114
116
OFF
IIII
II
130
106
R Y W G B I O
R Y W G B I O
R Y
106
108
110
120
122
112
100

FIG. 2

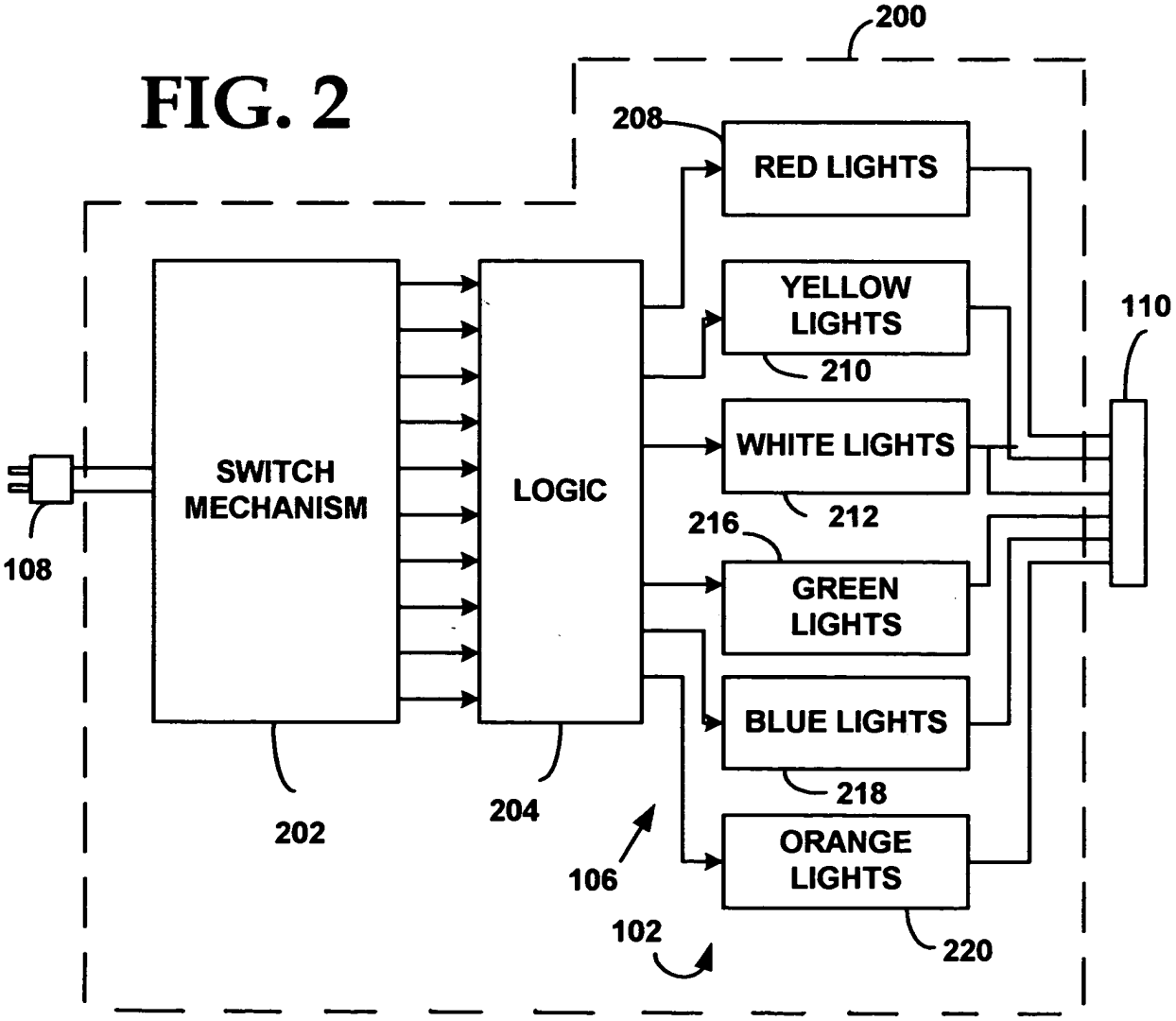

200
208
RED LIGHTS
YELLOW LIGHTS
210
WHITE LIGHTS
212
216
GREEN LIGHTS
BLUE LIGHTS
218
ORANGE LIGHTS
220
110
SWITCH MECHANISM
LOGIC
108
202
204
106
102

FIG. 3A

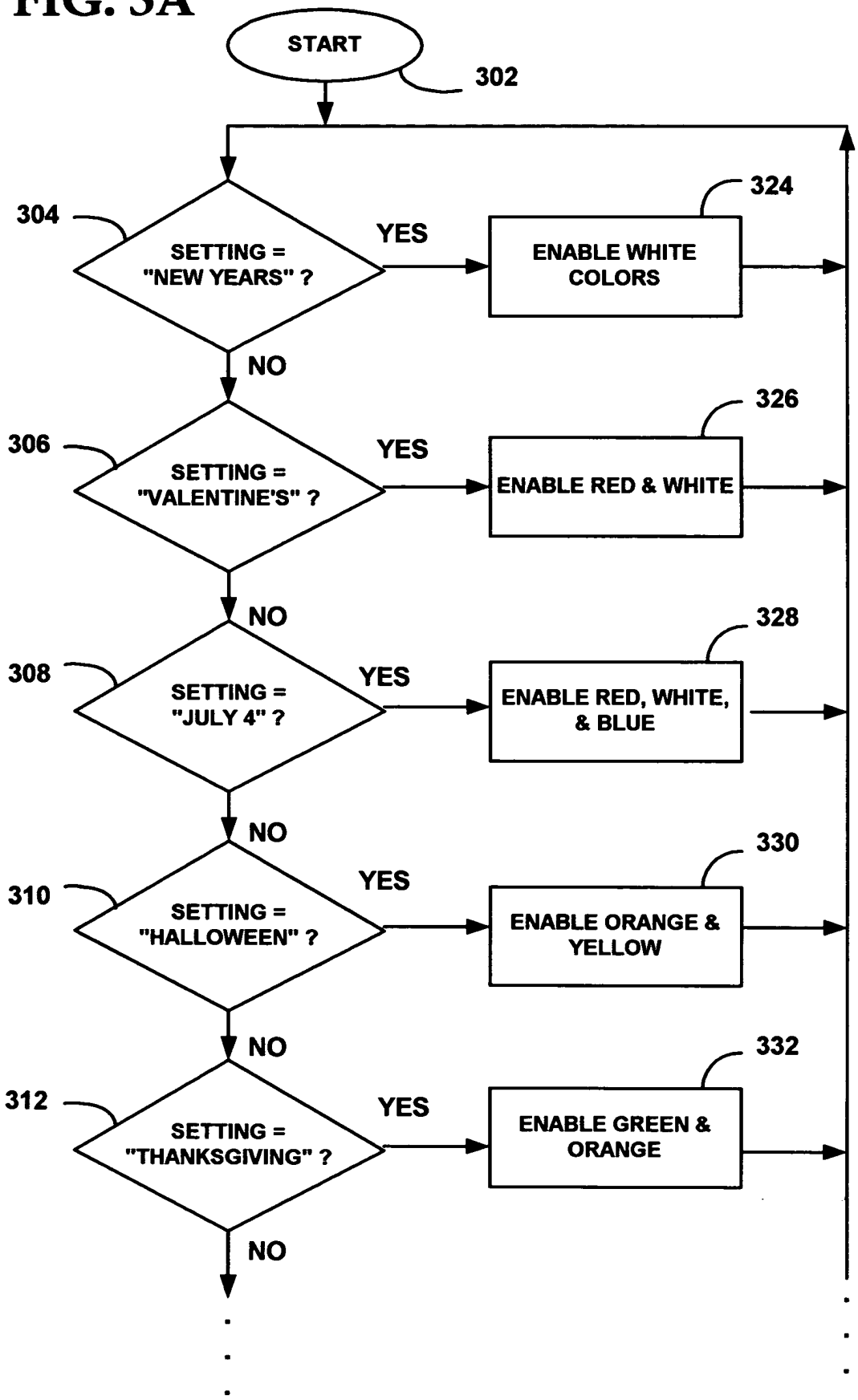

START
302
304
SETTING = "NEW YEARS" ?
YES
324
ENABLE WHITE COLORS
NO
306
SETTING = "VALENTINE'S" ?
YES
326
ENABLE RED & WHITE
NO
308
SETTING = "JULY 4" ?
YES
328
ENABLE RED, WHITE, & BLUE
NO
310
SETTING = "HALLOWEEN" ?
YES
330
ENABLE ORANGE & YELLOW
NO
312
SETTING = "THANKSGIVING" ?
YES
332
ENABLE GREEN & ORANGE
NO

FIG. 3B

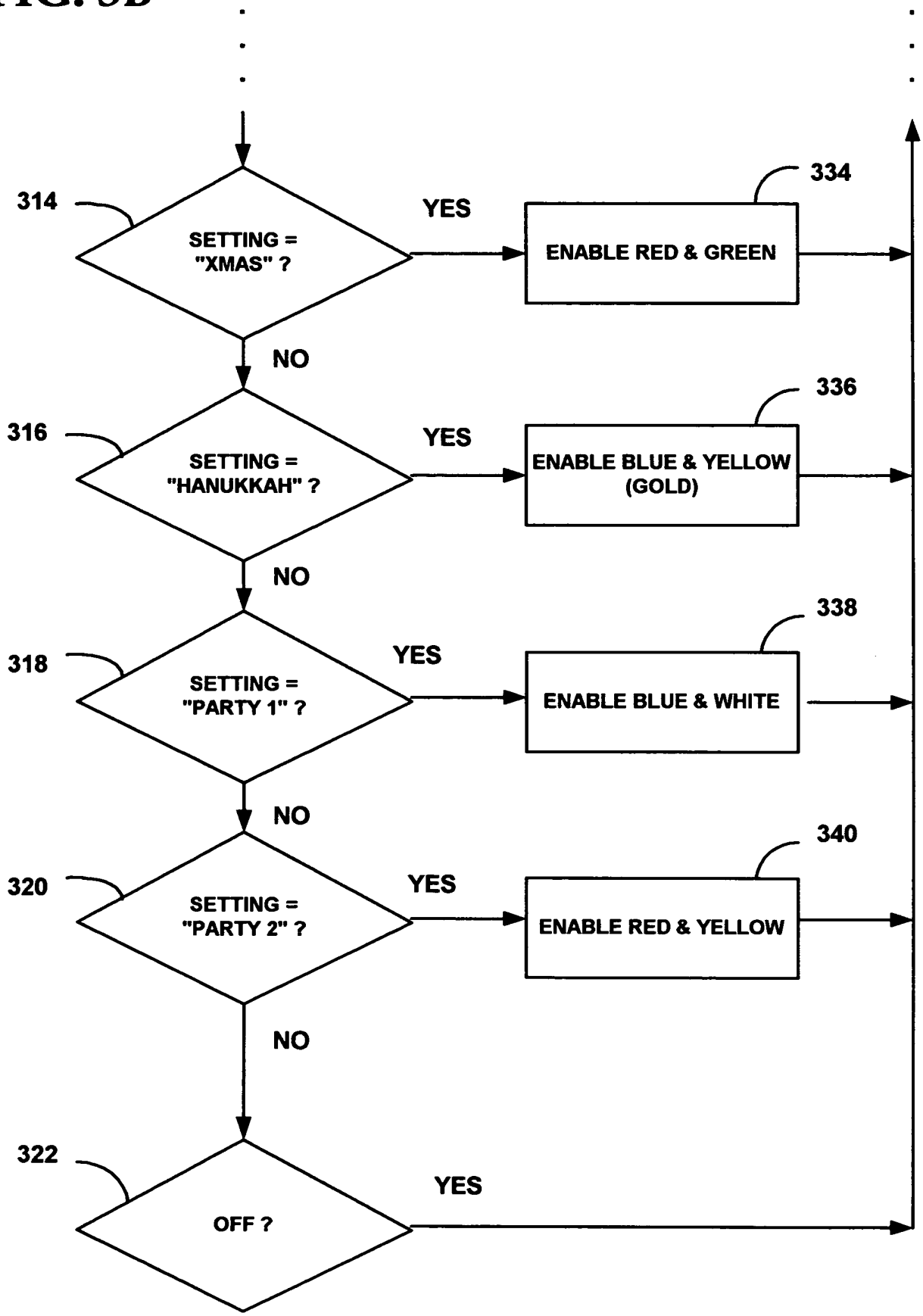
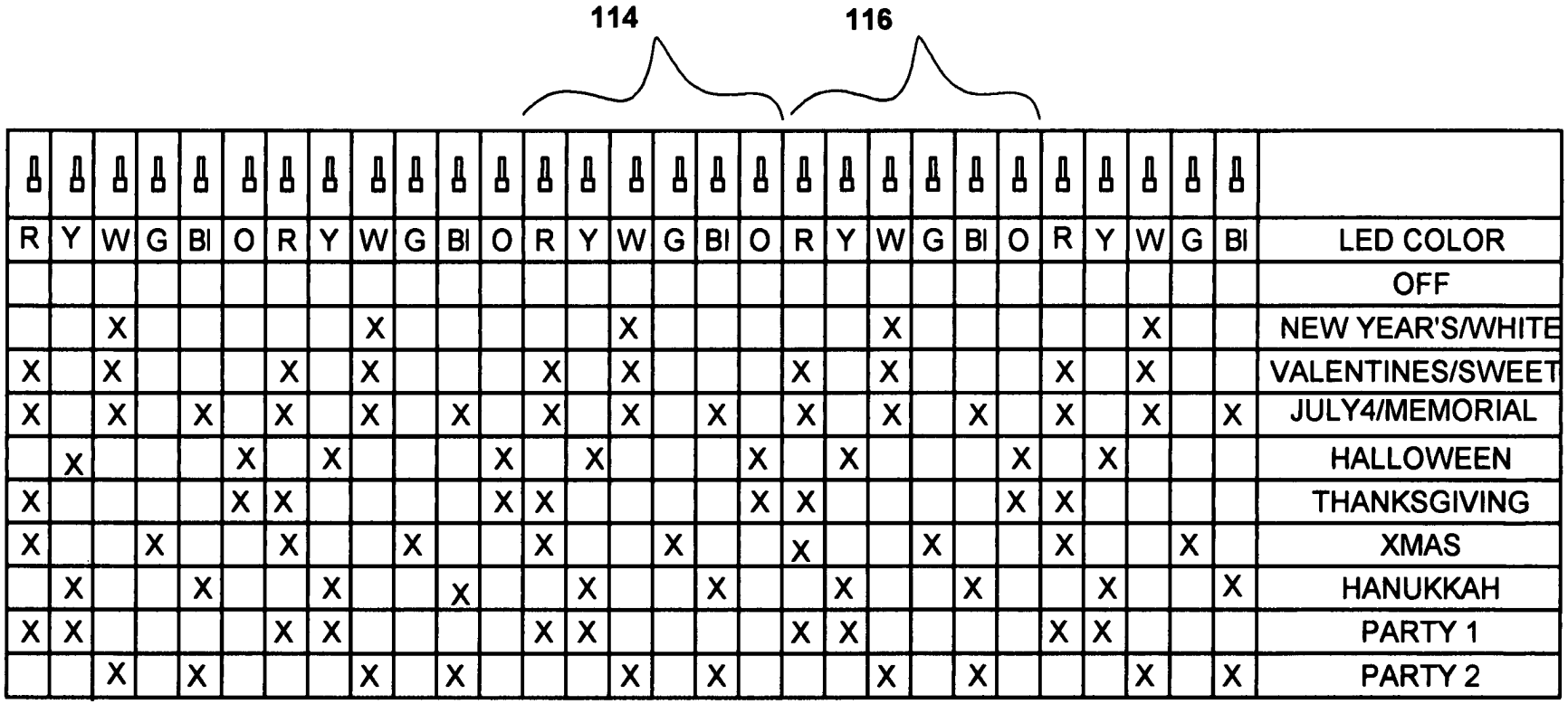

314
SETTING = "XMAS" ?
YES
334
ENABLE RED & GREEN
NO
316
SETTING = "HANUKKAH" ?
YES
336
ENABLE BLUE & YELLOW (GOLD)
NO
318
SETTING = "PARTY 1" ?
YES
338
ENABLE BLUE & WHITE
NO
320
SETTING = "PARTY 2" ?
YES
340
ENABLE RED & YELLOW
NO
322
OFF ?
YES

FIG. 4



R	Y	W	G	Bl	O	R	Y	W	G	Bl	O	R	Y	W	G	Bl	O	R	Y	W	G	Bl	O	R	Y	W	G	Bl	LED COLOR
																													OFF
		X						X						X						X						X			NEW YEAR'S/WHITE
X		X				X		X				X		X				X		X				X		X			VALENTINES/SWEET
X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	JULY4/MEMORIAL
	X				X		X				X		X				X		X				X		X				HALLOWEEN
X					X	X					X	X					X	X					X	X					THANKSGIVING
X			X			X			X			X			X			X			X			X			X		XMAS
	X			X			X			X			X			X			X			X			X			X	HANUKKAH
X	X					X	X					X	X					X	X					X	X				PARTY 1
		X		X				X		X				X		X				X		X				X		X	PARTY 2

"X" = ON

NO "X" = OFF

400

FIG. 5

TRUTH TABLE LOGIC

Setting	Setting	RED	YELLOW	WHITE	GREEN	BLUE	ORANGE
New Year's/ White	1	1	1	0	1	1	1
Valentine's /Sweetest	2	0	1	0	1	1	1
July 4/ Memorial	3	0	1	0	1	0	1
Halloween	4	1	0	1	1	1	0
Thanks giving	5	1	1	1	0	1	0
Xmas	6	0	1	1	0	1	1
Hanukkah	7	1	0	1	1	0	1
Party 1	8	0	0	1	1	1	1
Party 2	9	1	1	0	1	0	1
OFF	0	1	1	1	1	1	1

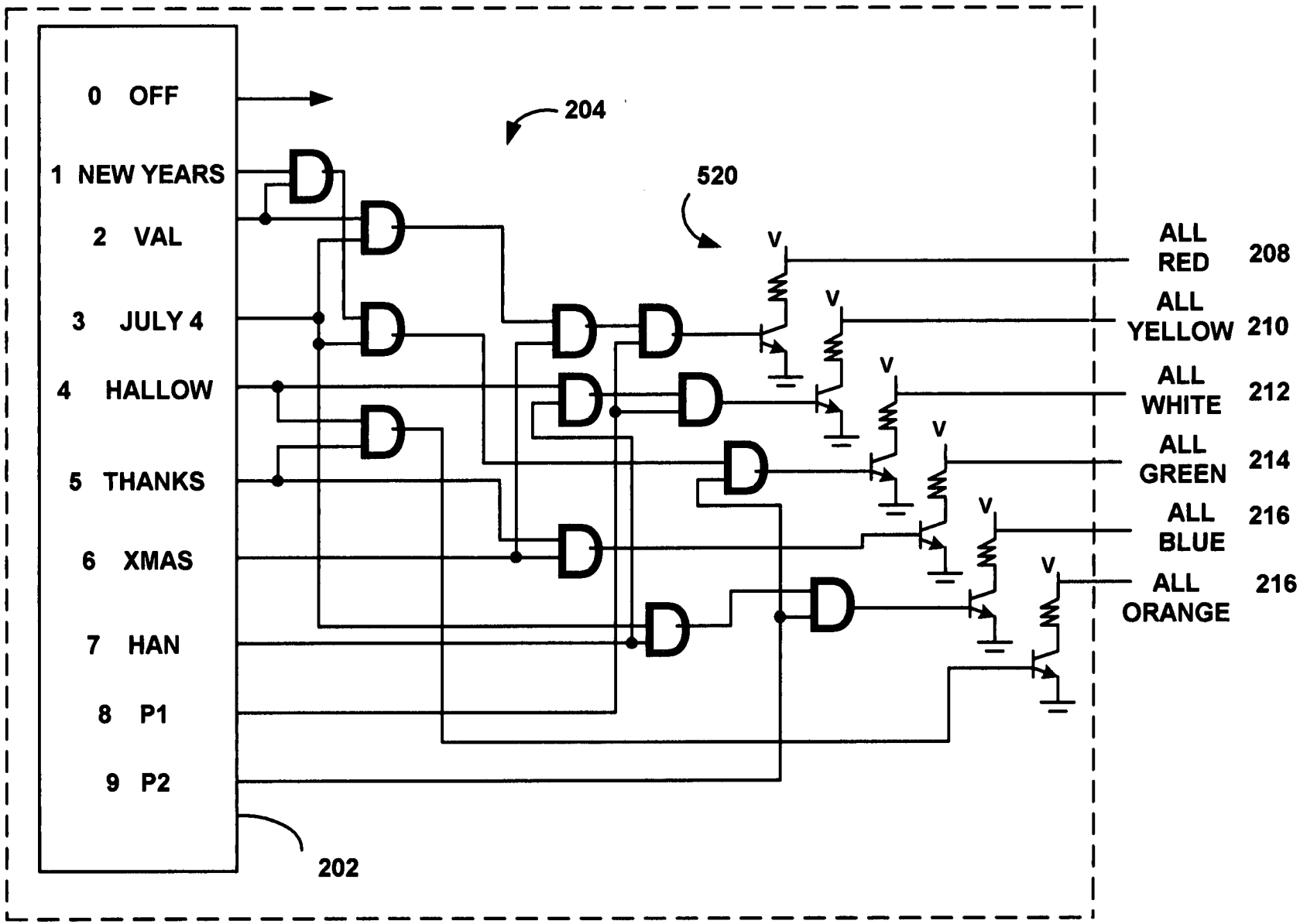


FIG 6

202 and 204

FIG. 7

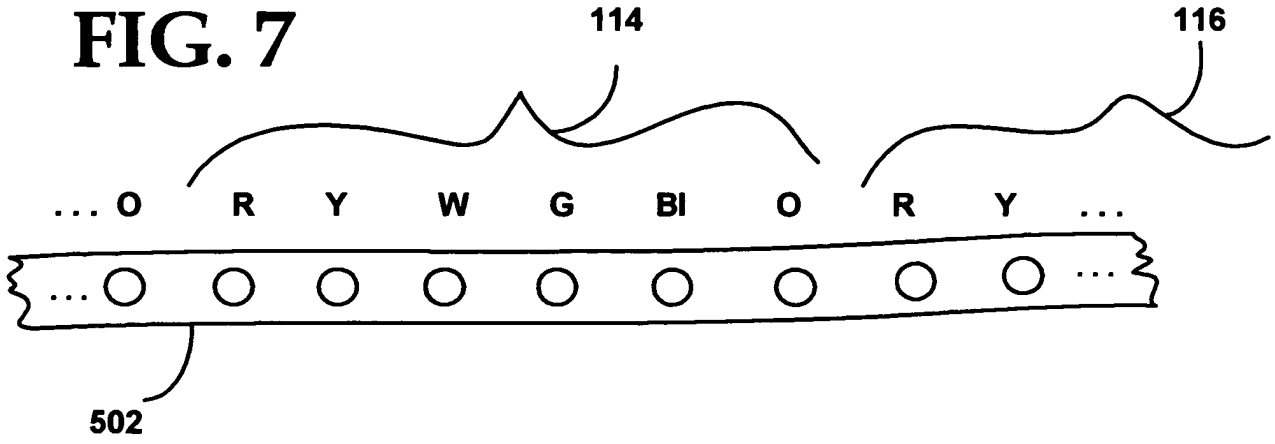


FIG. 8

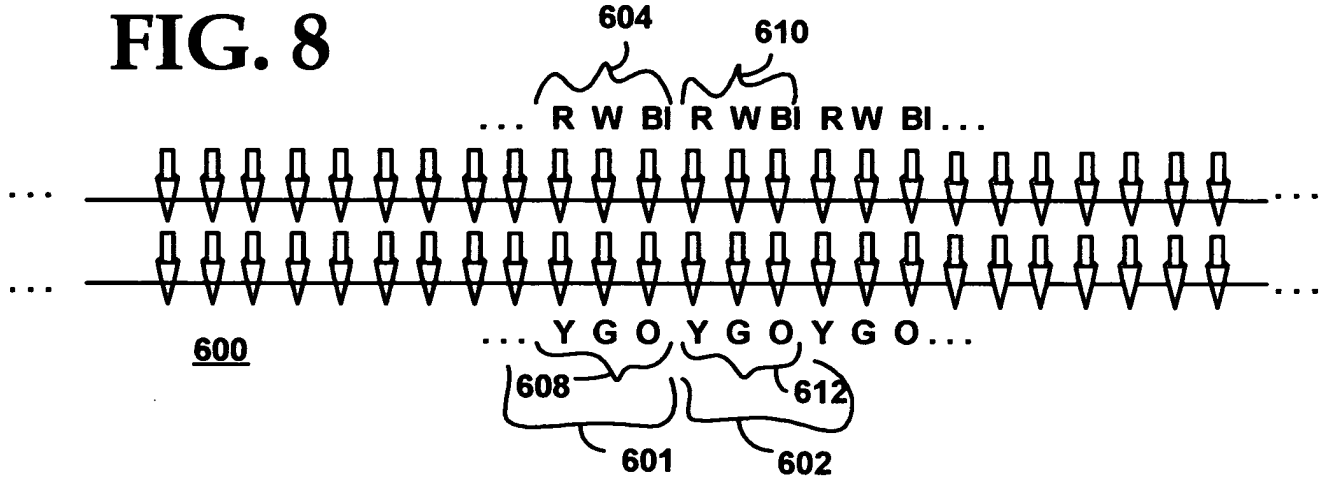
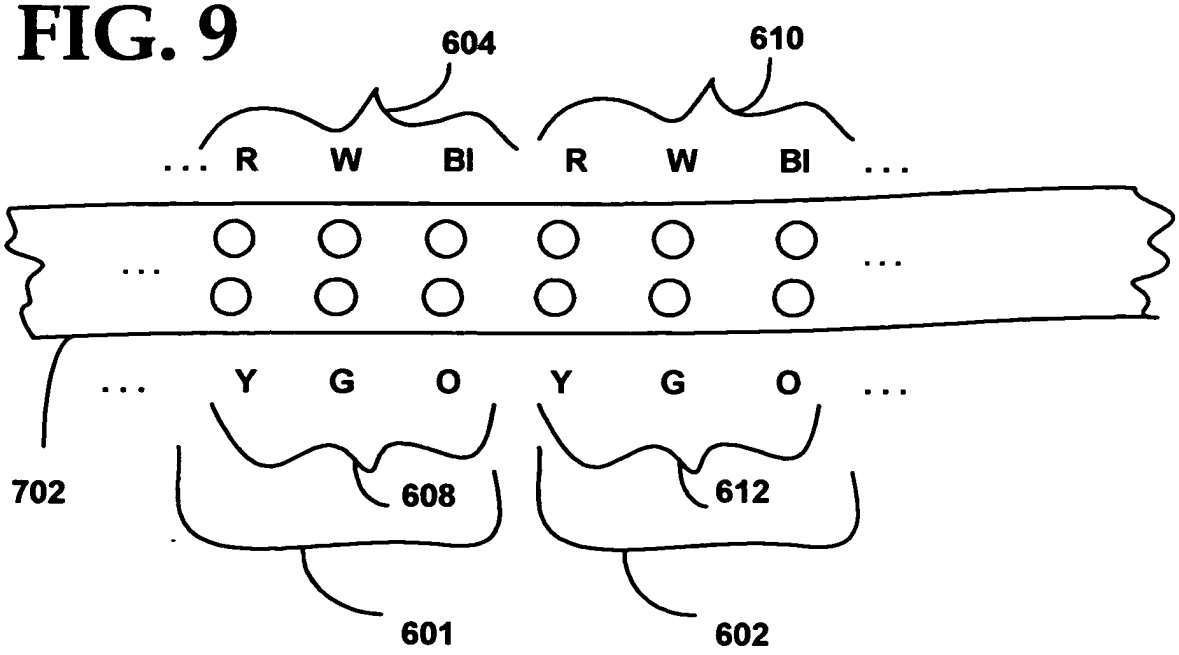


FIG. 9



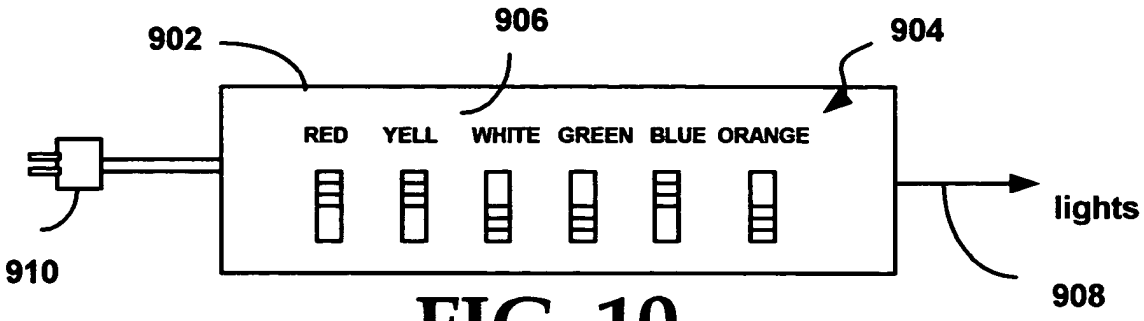


FIG. 10

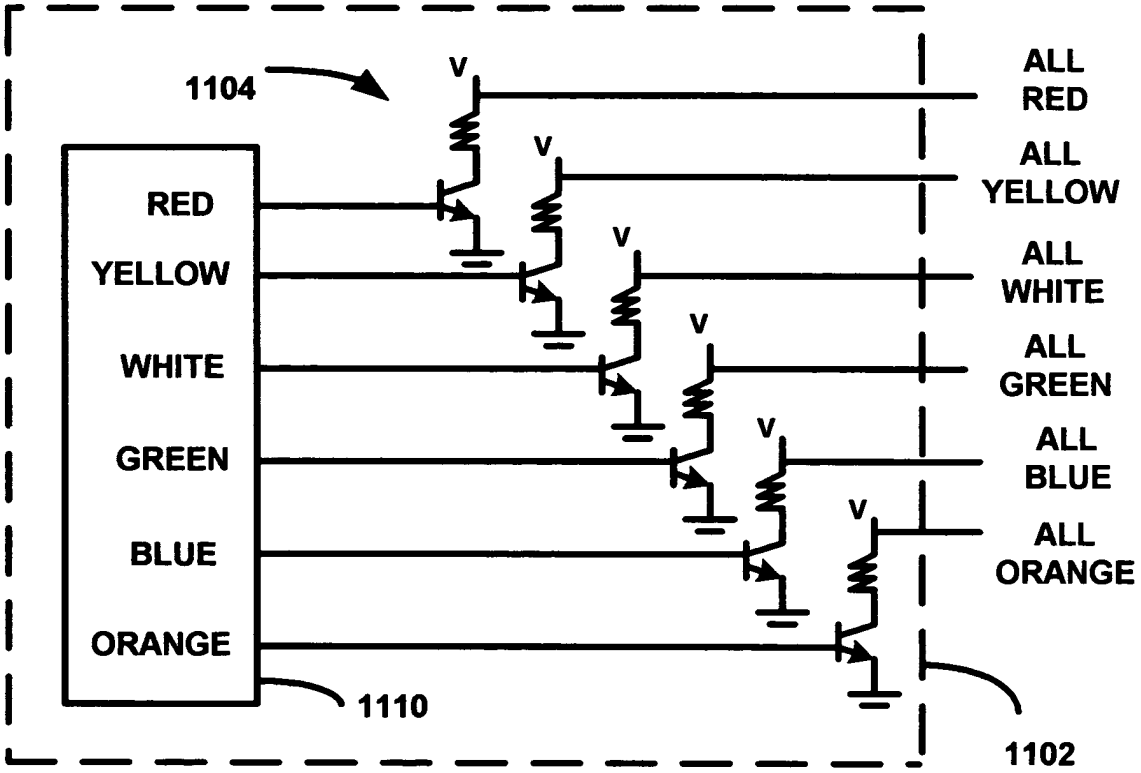


FIG. 11

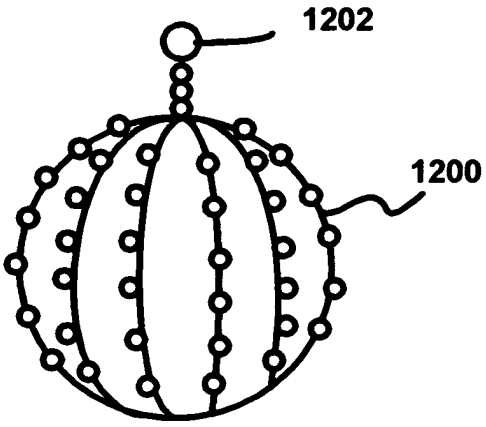


FIG. 12

FIG. 13

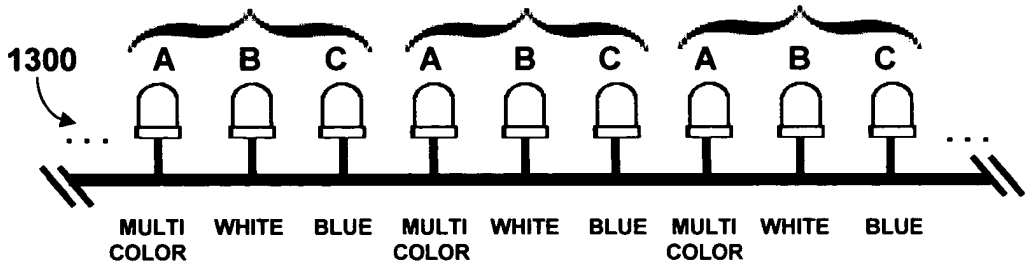


FIG. 14

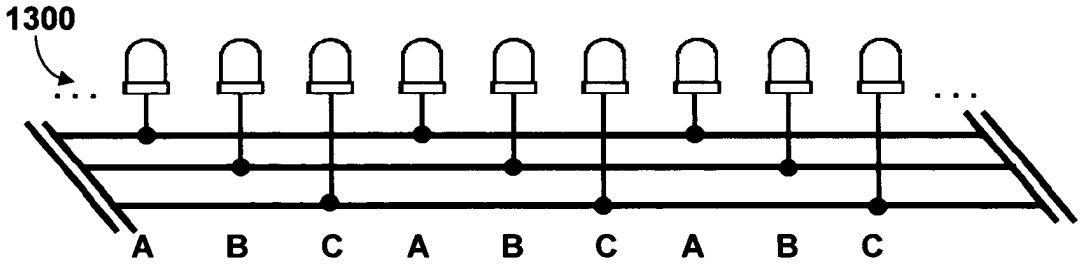


FIG. 15

SETTING	COLOR SCHEME		
	MULTICOLOR	WHITE	BLUE
New Year's Day	(Off)	White	(Off)
Valentine's	Red	White	(Off)
Easter	Yellow	White	(Off)
St. Patrick's	Green	White	(Off)
4th of July	Red	White	Blue
Hanukah	Yellow	(Off)	Blue
Christmas	Red	(Off)	Blue

1500

FIG. 16

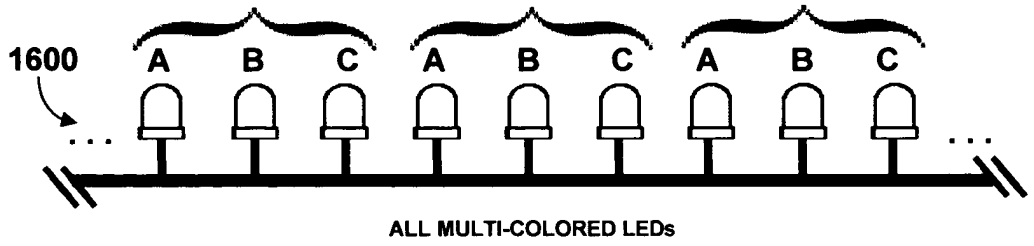


FIG. 17

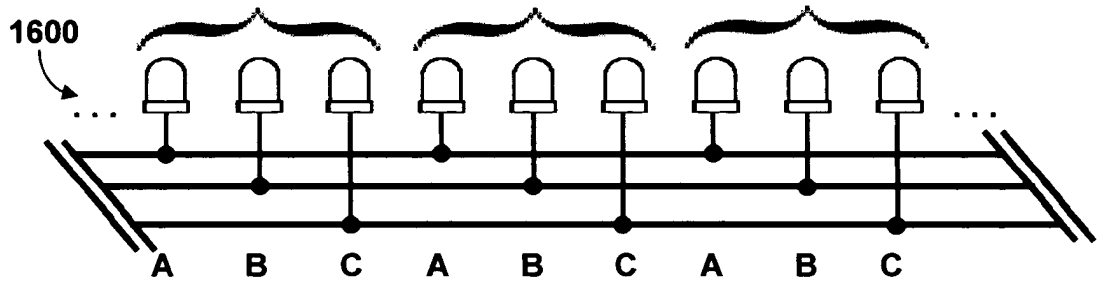


FIG. 18

SETTING	COLOR SCHEME		
	A	B	C
Christmas	Red	Green	Yellow
	Red	Green	Red
St. Patrick's Day	Green	Yellow	(Off)
	Green	Green	Green
	Green	White	(Off)
St. Valentine's Day	Red	Yellow	Red
	Red	Red	Off
Easter	Yellow	Yellow	Yellow
	Yellow	White	(Off)
4th of July	Red	White	Blue

1800

FIG. 19

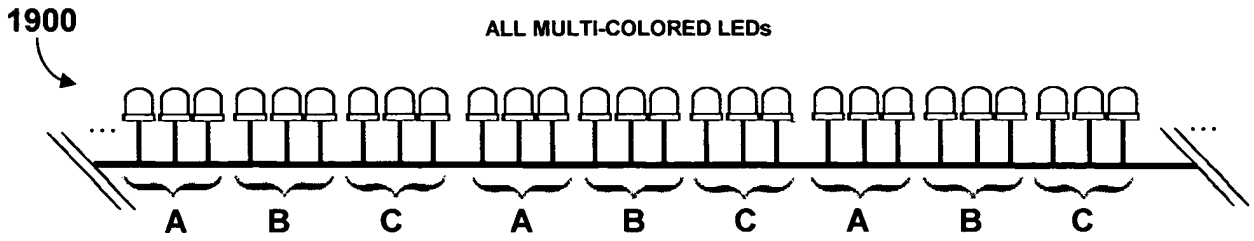


FIG. 20

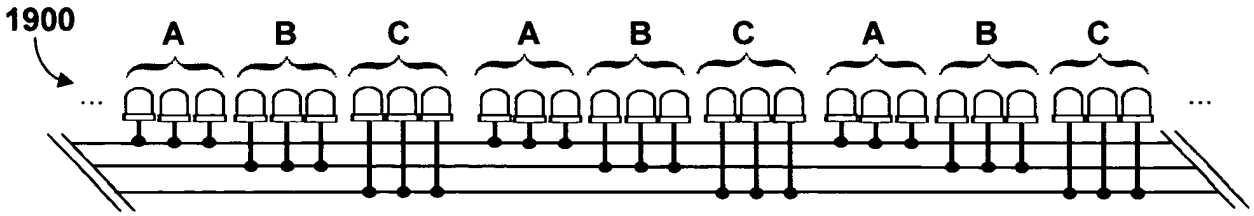
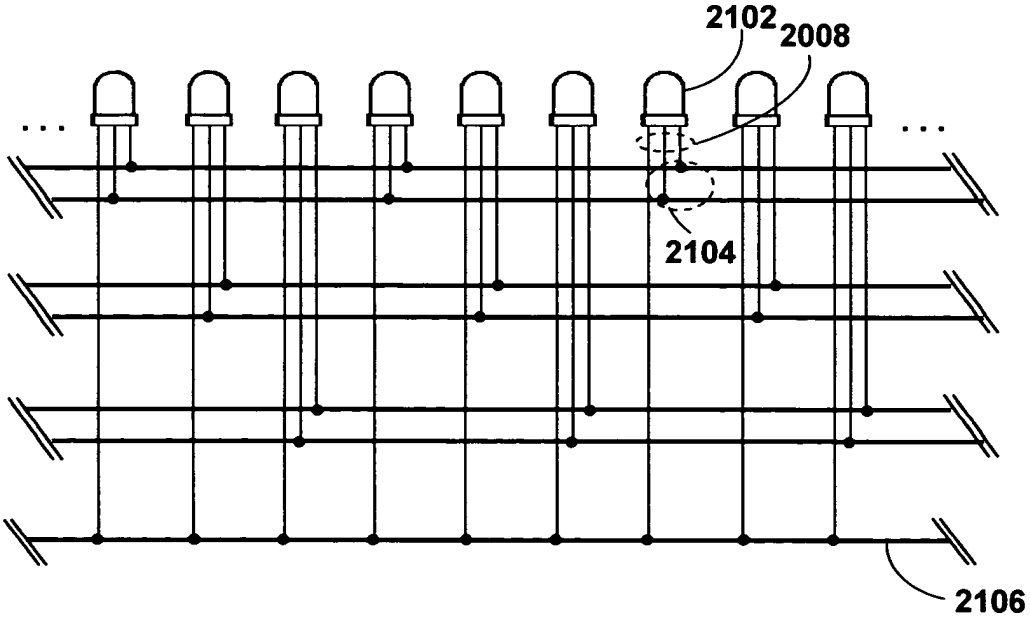



FIG. 21